Item no. 2382

WAGAN® TECH

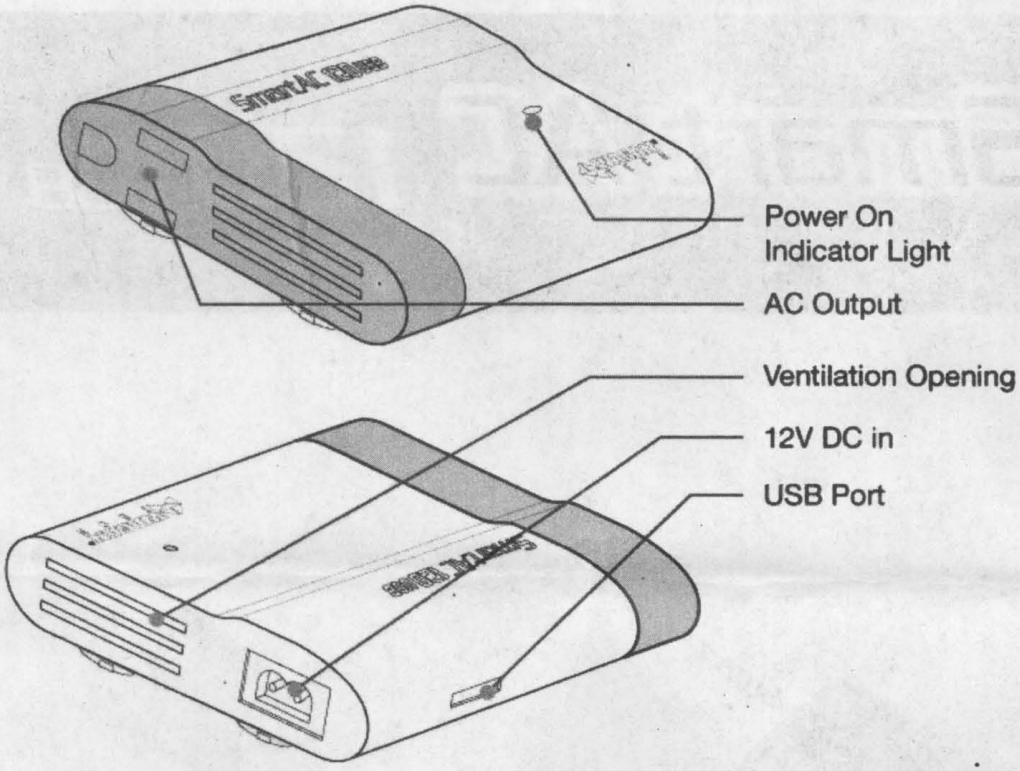
Smart AC™ 120 USB INVERTER

User's Manual

Smart AC 120 Watt with USB

By Wagan Tech

Thank you for purchasing Smart AC 120 Watt with USB by Wagan Tech. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully before use.



BASIC OPERATION:

1. Make sure that you choose the right operating voltage for both input and output of the inverter.
2. Connect power cord into inverter and plug the cigarette lighter plug into the receptacle of your vehicle. Put in firmly to ensure good contact. And the LED light will confirm that AC power is present.
3. Insert the plug of your appliance into the AC socket at the side of the inverter.
4. If the LED light is blinking, please refer to the chapter of troubleshooting.
5. If the LED light is solid blue, you have 120 watt of power source for your AC appliances.
6. To power USB apparatus, plug USB connector into USB power port.

SPECIAL RECOMMENDATION:

1. Unplug the inverter when it is not in use.
2. Unplug the inverter when starting the vehicle's motor.
3. If the blue LED light blinks, turn off your appliance, unplug the inverter, and restart the engine in your vehicle. It is simply the low-battery warning when indicates that the voltage of your battery is getting low.

SAFETY PRECAUTION:

1. Do not open the case of the inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.
2. Do not let the cord of the inverter or any appliances' cord restrict your driving. If operating from a moving vehicle, we recommend that secure the inverter to prevent it from shifting around while the vehicle is in operation.
3. Be careful not to touch the tip of the cigarette lighter plug directly after usage. The plug may be hot and could cause minor burns.
4. Do not operate this inverter in or around water. Water can damage the inverter, and water damage is not covered under warranty. Also, do not operate the Inverter using wet hands. The *AC* voltage of the unit makes lf on electrical shock hazard if operated with wet hands.
5. Do not connect the Inverter directly to another AC power source. Damage may result, and such damage will void the inverter's warranty.
6. Know the wattage requirements of your appliance, only operate items which are 120 watts or less.
7. Use common sense. This device produces power just like your wall outlets at home and should be treated seriously.
8. Keep away from children.

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BATTERY USE:

1. To avoid over-discharging your vehicle's battery, we recommend running your engine for 10-20 minutes to recharge the vehicle's battery after every 2-3 hours of operating the inverter.
2. If you choose to use on adapter to connect the inverter directly to your battery terminals, it is important to connect the '+' wire to the '+' terminal and the '-' wire to the '-' terminal. IF YOU CONNECT THE WIRES TO THE INCQRRECT TERMINALS, YOU WILL REVERSE THE POLARITY AND DAMAGE THE INVERTER. REVERSED POLARITY WILL INSTANLY VOID THE WARRANTY OF YOUR INVERTER.
3. If you choose to operate a battery charger to replenish your battery's voltage, be sure to disconnect the inverter first. Failure to disconnect the inverter prior to connecting a charger may result in on input spike which will damage the inverter.
   CONNECTING THE INVERTER'S INPUT TO BATTERY CHARGER WILL VOID THE WARRANTY, AND MAY DAMAGE THE INVERTER.
4. Make sure the battery's voltage dose not exceed 16 volts DC.
   CONNECTING THE INVERTER TO A DC POWER SOURCE GREATER THAN 16 V DC WILL VOID THE WARRANTY, AND MAY DAMAGE THE INVERTER.

TROUBLESHOOTING:

If the inverter does not appear to be functioning properly, there are several reasons why the inverter may not be responding:

Problem	Solution
Poor contact	Clean contact parts thoroughly
Receptacle has no power	Check car fuse, replace damage fuse. Check receptacle wiring. Repair if necessary.
Fuse is blown	The fuse is located inside the DC plug. Replace fuse with a fuse of equivalent value.
Battery voltage is too low	Start the engine to recharge the battery, replace battery if needed.
Shut down on overload	Reduce the wattage of your load to lower than 120watt.
Thermal shutdown	Under heavy loads for extended periods of time, the inverter will shutdown to prevent damage to

	excess heat. Simply reduce your load and allow the inverter to cool down.
Low-battery shutdown	Recharge your battery and resume operation. If you appear to have a problem which is not listed above, you may call our customer service department at 510-490-9221.

NOTE:
All specifications typical at nominal line, half load, and 25°C / 77°F unless otherwise noted. Specifications subjected to change without notice.

SPECIFICATION:

Output power.....120 Watt
Peak surge.....300 Watt
Input voltage.....10.2V~16V DC
Output voltage.....110 + / - 5 V AC
Output frequency.....60 + / - 5 Hz
Output waveform.....Modified sine wave
Outlet.....North American type 3-prong
Fuse (replaceable).....15 Ampere
Efficiency (full load).....Approx. 90%
Dimensions (L x W x H mm).....92 x 69 x 21
Net weight.....0.5kg
Power on LED display.....Yes
Operating temperature.....55°C +/- 5°C
No load current.....<0.1A
Material.....Plastic

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WAGAN Corp. Limited Warranty Registration Form

All WAGAN Corporation products are warranted to the original purchaser of this product.
Warranty Duration: This product is warranted to the original purchaser for a period of one (1) Year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the event of a defective item, please ship the item, prepaid, with a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replaces or repair the defective part. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and Canada and does not extend to any units which have been used in violation of written instructions furnished.
Warranty Disclaimers: This warranty is in-lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.
Warranty Performance: During the above one (1) Year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) Year warranty period.

- Please activate my limited warranty for WAGAN Corp.
- Enclosed copy of original sales receipt.

Name					
Mail Address					
Add'l Address					
City		State		Zip Code	
Item Purchased					
Store Name					
Date of Purchase					
Signature			Date		

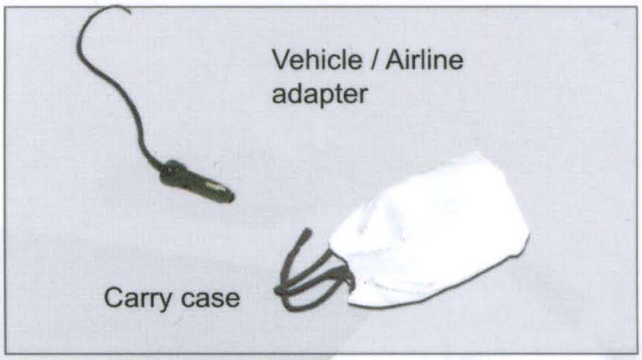
All WAGAN Corporation Products must be registered within (30) days of purchased to activate this warranty.
Mail the complete registration form, along with a copy of the original receipt to:

Attn: Customer Service
WAGAN Corporation
3589 Yale Way, Fremont, CA 94538
Email: customerservice@wagan.com
Phone: (Toll Free) 1-800-231-5806 (Local) 1-510-490-9221
Hours of Operation: Monday through Friday 8:00 A.M. - 5:00 P.M. (P.S.T.)

Applications

Product	Watts
iPod	8
iPod Nano	8
Cell phone charger	8
Portable video game	12
Portable DVD player	18
Video game console	20
Laptop computer	75
13" television	100

Included Accessories



Specifications

Continuous Power.....120W
Max. Power (10 minutes).....150W
Peak Power.....300W
Input Voltage.....12V/15V DC
AC Receptacle.....110V

No Load Current.....<0.1
Output Waveform.....Modified SIne Wave
Efficiency (full load).....Approx. 90%
Power On LED Display.....Yes
Weight.....160g

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WAGAN CORP.
3589 Yale Way Fremont, CA 94538 USA
customerservice@wagan.com www.wagan.com

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iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
All specifications and features are subject to change without prior notice. Actual contents may differ slightly from that pictured.

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Made in China

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WAGAN® TECH

Smart AC™ INVERTER 120 USB

Tiny and portable device converts 12V DC to AC and USB for your electronics

USB

Place inverter here

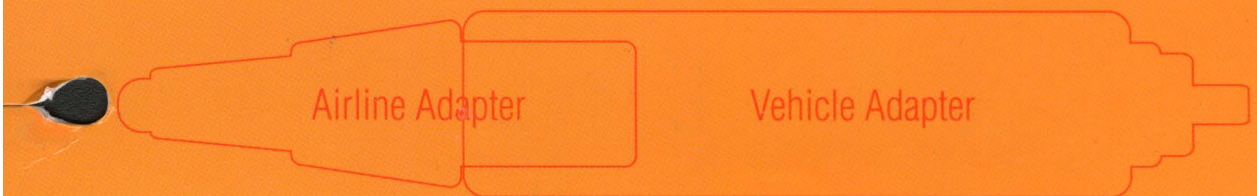
Laptop

iPod, MP3 Players

Digital Camera

Smart Phones

Video Camcorder



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Run your electronics on the go!

- Run & charge your electronics in your car, boat, RV or on the airplane!
- USB power output to charge and run your iPod™, Treo™, Blackberry™, and cell phones
- 120-watt 110V AC power is perfect for laptops, DVD players, game consoles, digital cameras and more!
- Safety features include: Over-voltage, Overload, Short-circuit, and Over-temperature protection, and Low voltage shutoff.